BUMPER ASSEMBLY INCLUDING AN ENERGY ABSORBER

ABSTRACT OF THE DISCLOSURE

A bumper system for an automobile vehicle includes a beam configured to attached to vehicle rails and an energy absorber coupled to the beam. The energy absorber is tunable for meeting predetermined criteria for both low speed and pedestrian impacts, and includes a flanged frame for attachment to the beam, a body that includes a plurality of lobes extending from the flanged frame and spaced apart from each other. Each lobe includes first and second side walls, having a concave shape.